

Title (en)  
HERBICIDE RESISTANT BARLEY

Title (de)  
HERBIZIDRESISTENTE GERSTE

Title (fr)  
ORGE RÉISTANT AUX INSECTICIDES

Publication  
**EP 2288254 A4 20111130 (EN)**

Application  
**EP 09741583 A 20090506**

Priority  
• AU 2009000558 W 20090506  
• AU 2008902205 A 20080506

Abstract (en)  
[origin: WO2009135254A1] The application discloses non-naturally occurring barley plants with increased resistance to herbicides, particularly imidazolinone herbicides. Also disclosed are the barley seeds per se, an isolated nucleic acid incorporating the nucleic acid sequence conferring imidazolinone resistance, a method of inhibiting weed growth in the vicinity of a barley plant, and a method of growing a barley crop. Seeds have been deposited at NCIMB.

IPC 8 full level  
**A01H 1/06** (2006.01); **A01H 5/10** (2018.01); **C12N 15/01** (2006.01); **C12N 15/29** (2006.01)

CPC (source: EP US)  
**A01G 22/00** (2018.01 - US); **A01H 1/06** (2013.01 - EP US); **A01H 5/10** (2013.01 - EP US); **A01H 6/4624** (2018.04 - EP US);  
**A01N 43/50** (2013.01 - US)

Citation (search report)  
• [IP] WO 2009046334 A1 20090409 - CIBUS LLC [US], et al  
• [X] LI D ET AL: "A mutation at the Ala122 position of acetohydroxyacid synthase (AHAS) located on chromosome 6D of wheat: improved resistance to imidazolinone and a faster assay for marker assisted selection", MOLECULAR BREEDING, KLUWER ACADEMIC PUBLISHERS, DO, vol. 22, no. 2, 21 March 2008 (2008-03-21), pages 217 - 225, XP019611822, ISSN: 1572-9788  
• [IP] RODRÁÑ GUEZ-SUÁÑ REZ C ET AL: "Selection and molecular characterization of imidazolinone resistant mutation-derived lines of Tritordeum HT621", MOLECULAR BREEDING, KLUWER ACADEMIC PUBLISHERS, DO, vol. 23, no. 4, 20 January 2009 (2009-01-20), pages 565 - 572, XP019684623, ISSN: 1572-9788  
• [T] LEE HYEJIN ET AL: "Single nucleotide mutation in the barley acetohydroxy acid synthase (AHAS) gene confers resistance to imidazolinone herbicides", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 108, no. 21, May 2011 (2011-05-01), pages 8909 - 8913, XP002661373, ISSN: 0027-8424  
• See references of WO 2009135254A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2009135254 A1 20091112**; AU 2009243917 A1 20091112; AU 2009243917 B2 20140814; BR PI0908317 A2 20150818;  
BR PI0908317 A8 20190827; BR PI0908317 B1 20201020; CA 2723105 A1 20091112; CA 2723105 C 20160628; CN 102202494 A 20110928;  
CN 102202494 B 20151014; CN 105284628 A 20160203; EP 2288254 A1 20110302; EP 2288254 A4 20111130; EP 2288254 B1 20161130;  
EP 3120695 A1 20170125; US 2011126327 A1 20110526; US 2015075070 A1 20150319; US 8889951 B2 20141118

DOCDB simple family (application)  
**AU 2009000558 W 20090506**; AU 2009243917 A 20090506; BR PI0908317 A 20090506; CA 2723105 A 20090506;  
CN 200980126400 A 20090506; CN 201510575739 A 20090506; EP 09741583 A 20090506; EP 16185759 A 20090506;  
US 201414540478 A 20141113; US 99117209 A 20090506